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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/868,842	10/17/2001	Richard D. Rodrigo	713-258	6426
22429	7590 09/09/2003			
LOWE HAUPTMAN GILMAN AND BERNER, LLP 1700 DIAGONAL ROAD SUITE 300 /310 ALEXANDRIA, VA 22314			EXAMINER	
			DOLE, TIMOTHY J	
			ART UNIT	PAPER NUMBER
			2858	

DATE MAILED: 09/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		lh				
	Application No.	Applicant(s)				
Office Action Summan	09/868,842	RODRIGO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Timothy J. Dole	2858				
The MAILING DATE of this communication appears on the cover shet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replif NO period for reply specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	.136(a). In no event, however, may a reply be to ply within the statutory minimum of thirty (30) da d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDON	imely filed sys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 17	June 2003 .					
2a)⊠ This action is FINAL . 2b)□ T	his action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 6-28 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>11-23,27 and 28</u> is/are allowed.						
6)⊠ Claim(s) <u>6-10</u> is/are rejected.						
7)⊠ Claim(s) <u>24-26</u> is/are objected to.	7) Claim(s) <u>24-26</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to t						
11)☐ The proposed drawing correction filed on	•	roved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)☐ All b)☐ Some * c)☐ None of:						
 Certified copies of the priority documents have been received. 						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language p 15)☑ Acknowledgment is made of a claim for domes						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ary (PTO-413) Paper No(s) Il Patent Application (PTO-152)				

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 6-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Wright et al.

Referring to claim 6, Wright et al. discloses a method of detecting faults in high voltage circuits of an ionizer without affecting operation of said high voltage circuits, said method comprising the step of: sensing the voltage of said high voltage circuits (column 13, lines 22-34) by capacitively coupling a sensing circuit with said high voltage circuit (column 13, line 46 – column 14, line 2); and comparing the sensed voltage with a threshold voltage (column 8, lines 40-46).

Referring to claim 7, Wright et al. discloses the method as claimed, further comprising the step of displaying an alarm if said sensed voltage is less than or equal to said threshold voltage (column 8, lines 40-46).

Referring to claim 8, Wright et al. discloses the method as claimed wherein said ionizer has a reference circuit or an emitter circuit (fig. 2 (10)) and said sensing step includes capacitively coupling a sensing circuit with a reference circuit or an emitter circuit (column 13, line 46 – column 14, line 2).

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

4. Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wright et

al. in view of Halleck.

Referring to claim 9, Wright et al. discloses the method as claimed wherein said ionizer monitor is usable in connection with an AC air ionizer (column 1, lines 9-14).

Wright et al. does not disclose that the AC air ionizer is a self-balancing ionizer.

Halleck discloses a method wherein the ionizer monitor is usable in connection with a self-balancing ionizer (column 5, lines 8-17).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to incorporate the self-balancing ionizer of Halleck into the method of Wright et al. for the purpose of providing more efficient and cost effective balanced ion emission (column 2, line 27 – column 3, line 18).

Referring to claim 10, Wright et al. discloses the method as claimed except for the step of controlling said ionizer in response to said sensing step sensing a voltage less than or equal to said threshold voltage.

Halleck discloses a method for controlling the ionizer in response to the sensing step sensing a fault (column 5, lines 4-19).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to incorporate the control circuit method of Halleck into the method of Wright et al. for the purpose of turning off the ion generator in the event of catastrophic failure of equipment whereby preventing damage to other circuit components (column 5, lines 17-19).

Allowable Subject Matter

- 5. Claims 11-23, 27 and 28 are allowed.
- 6. Claims 24-26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

- 7. Applicant's arguments filed June 17, 2003 have been fully considered but they are not persuasive.
- 8. In response to Applicants argument with respect to claim 6, that Wright et al. does not disclose "the claimed step of sensing the voltage of the high voltage circuits", it should be noted that Wright et al. discloses measuring total current of a high voltage circuit (abstract). Since the current waveform is essentially the same as the voltage waveform from which it is generated (column 6, lines 10-14), it can be said that Wright et al. discloses sensing the voltage of the high voltage circuits.

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Final Rejection

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J. Dole whose telephone number is 703-305-7396. The examiner can normally be reached on Mon. thru Fri. from 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le can be reached on 703-308-0750. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TJD

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4/5/03

N. Le Supervisory Patent Examiner Technology Center 2800